

# EUROPEAN PATENT OFFICE

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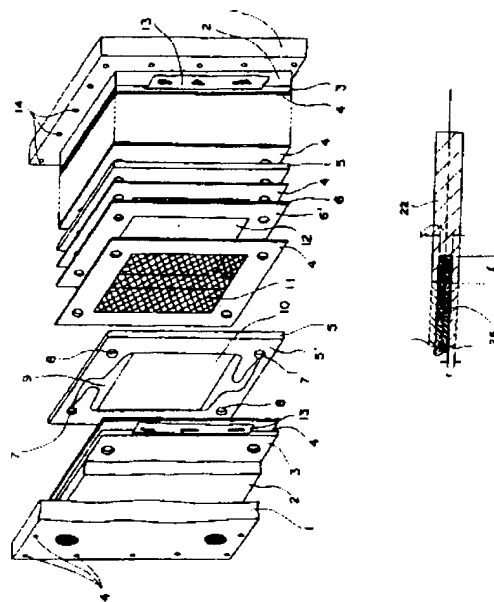
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TITLE : SECONDARY BATTERY



**ABSTRACT :** PURPOSE: To increase dimension accuracy by combining an electrode or a barrier membrane and an insulating frame into one body by injection molding so that the thickness of the insulating frame and the lapped part of the electrode or membrane with the insulating frame are specified.

**CONSTITUTION:** An electrolyte circulation, bipolar type, stacked zinc-bromine secondary battery is formed by stacking a frame-mounted electrode 6 having an insulating frame 6' molded with an electrode 12, a packing 4 having a spacer mesh, and a frame-mounted barrier membrane 5 having an insulating frame 5' molded with a barrier membrane. The frame-mounted electrode 6 and frame-mounted barrier membrane 5' are formed by injection molding. When insulating material 26 is buried in an insulating frame 22, the thickness  $t$  of one side of the frame is specified to 0.2mm or more, and the lapped part  $l$  is specified to 0.5-3.0mm. Thereby, since uneven thickness and generation of a warp are prevented, dimension accuracy is increased to make contact good. Therefore, electrolyte leakage is prevented.

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